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- ☐ 1. [Encapsulation of Osteoblast Seeded Microcarriers into Injectable, Photopolymerizable Three-Dimensional Scaffolds Based on ...](#) [11K]  
 May 2006  
 ...bone marrow **cells** proliferated...The viscous **polymer** paste allowed...properly. After the **photopolymerization** process, microcarriers...encapsulated UMR-106 **cells** did not show...demonstrates that the **photopolymerization** and handling the viscous **polymer**/gelatin/microcarrier...detrimental for the **cells**. [Full text...  
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- ☐ 2. [Encapsulation of osteoblast seeded microcarriers into injectable, photopolymerizable three-dimensional scaffolds based on...](#)  
**Heidi A Declercq / Tomasz L Gorski / Séverine P Tielens / Etienne H Schacht / Maria J Cornelissen**, *Biomacromolecules*, May 2005  
 ...bone marrow **cells** proliferated...The viscous **polymer** paste allowed...After the **photopolymerization** process...encapsulated UMR-106 **cells** did not show...that the **photopolymerization** and handling the viscous **polymer**/gelatin/microcarrier...detrimental for the **cells**.  
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- ☐ 3. [Dielectric behavior of polymer-stabilized-liquid-crystal cells made from hosts with different ultraviolet absorptions](#)  
**Nathalie Dessaud / Peter Raynes / Paul Bonnett**, *Journal of Applied Physics*, Oct 2004  
 ...INTRODUCTION The **polymer** network (PN) was formed by **photopolymerization** of a low...response of the **polymer**-stabilized-liquid-crystal (PSLC) **cells** to an applied...METHOD The **polymer** networks were formed by **photopolymerization** of a small...once the **cells** had been...  
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- ☐ **4. Transdermal photopolymerization for minimally** [PDF-23K]  
May 2006  
...via transder- mal **photopolymerization** to observe the...The implanted **polymer** is surrounded by...with inflammatory **cells** (polymorphonuclear...lymphocytes, and giant **cells**), demonstrating...the transdermal **photopolymerization** process and the...implantation of **polymers** for drug delivery...  
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- ☐ **5. Transdermal photopolymerization for minimally** [PDF-23K]  
Sep 2003  
...via transder- mal **photopolymerization** to observe the...The implanted **polymer** is surrounded by...with inflammatory **cells** (polymorphonuclear...lymphocytes, and giant **cells**), demonstrating...the transdermal **photopolymerization** process and the...implantation of **polymers** for drug delivery...  
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- ☐ **6. Formation and localization of internal polymer columnar structures in liquid crystal cells**  
**Qingbing Wang / L.-C. Chien / Satyendra Kumar, Applied Physics Letters, Oct 2003**  
...crystal (LC) **cells** have been produced...solidified by **photopolymerization**. These **polymer** columns adhere...and localize **polymer** columns in LC **cells** using thermally-induced...followed by a **photopolymerization** step. The **polymer** columns extend...  
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- ☐ **7. Transdermal photopolymerization for minimally** [PDF-23K]  
Sep 2003  
...via transder- mal **photopolymerization** to observe the...The implanted **polymer** is surrounded by...with inflammatory **cells** (polymorphonuclear...lymphocytes, and giant **cells**), demonstrating...the transdermal **photopolymerization** process and the...implantation of **polymers** for drug delivery...  
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- ☐ **8. Nonlocal photopolymerization effect in the formation of reflective holographic polymer-dispersed liquid crystals**  
**Jun Qi / Liuliu Li / Mousumi De Sarkar / Gregory P. Crawford, Journal of Applied Physics, Sep 2004**  
Nonlocal **photopolymerization** effect in the...reflective holographic **polymer**-dispersed liquid...is . The pure **polymer cells** were also made...index of the **polymer**. The refractive...during the local **photopolymerization** process, which...  
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- ☐ **9. PII: S0142-9612(01)00051-5** [PDF-33K]  
Jun 2006  
...polymerized in direct contact with **cells** and tissues with- out deleterious...For tissue engineering purposes, **cells** can be suspended in the aqueous **polymer** solution after **photopolymerization**, **cells** will be homo- geneously seeded throughout...  
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- ☐ **10. No Title** [PDF-28K]  
Dec 2004  
...relation to the dry **polymer**). The obtained...preparation of glass **cells**. 2.3. **Photopolymerization**-induced phase...stabilized by a cured **polymer**.

**Photopolymerization**-induced phase...electrooptical **cells** using elastic **polymer** substrates. PPIPS...

[[http://www.wat.edu.pl/review/optor/12\(3\)305.pdf](http://www.wat.edu.pl/review/optor/12(3)305.pdf)]  
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☐ **11. Papers on radiation effects, Polymers** [153K]

Apr 2006

...DNCs and DNCs incorporated into thin **polymeric** films. The results show an enhancement...and characterize a novel biocompatible **polymeric** membrane system and demonstrate its potential...1 and loaded with 40 mg antibiotic/g **polymer**) released about 81% of the total loaded...

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☐ **12. Gene delivery in tissue engineering: a photopolymer platform to coencapsulate cells and plasmid DNA.**

**Deborah J Quick / Kristi S Anseth, Pharm Res, Nov 2003**

...coencapsulated) with **cells** in hydrogels to assess...plated and encapsulated **cells**. Encapsulated **cells** expressed the encoded...coencapsulated plasmid as the **polymer** degraded. CONCLUSIONS: This **photopolymerization** platform allows for the...

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☐ **13. Polymer Stabilized Nematic Liquid Crystals** [14K]

Jul 2003

...concentration and, in STN **cells**, the undesirable...devices based on **polymer** stabilization...the role of the **polymer** network and its...temperature of **photopolymerization** on network morphology...Morphology of **Polymer** Network PSLC **cells** are generally...

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☐ **14. Smooth muscle cell growth in photopolymerized hydrogels with cell adhesive and proteolytically degradable domains:...**

**Mann, B.K. / Gobin, A.S. / Tsai, A.T. / Schmedlen, R.H. / West, J.L., Biomaterials, Nov 2001**

...photopolymerized in direct contact with **cells** and tissues without deleterious effects...For tissue engineering purposes, **cells** can be suspended in the aqueous **polymer** solution after **photopolymerization**, **cells** will be homogeneously seeded throughout...

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☐ **15. Bipolar battery and isolation**

**Oosawa, Yasuhiko / Senbokuya, Ryouichi / NISSAN MOTOR CO., LTD., EUROPEAN PATENT, Jun 2004**

...electrodes and between **cells** of a bipolar battery using a **polymer** electrolyte. 2. Description...occurs between the **cells**. When a solid **polymer** electrolyte is used...where the single **cells** 10 are serially connected...battery in which the **polymer** electrolyte is used...

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☐ **16. FAST SWITCHING POLYMER STABILIZED LIQUID CRYSTAL DEVICES: MORPHOLOGICAL AND ELECTRO-OPTICAL PROPERTIES**

**KIM, SANG HWA, Jan 2004**

...1 1.2 **Polymer** Network Formation...4 2. **POLYMER**-STABILIZED BEND NEMATIC LIQUID CRYSTAL **CELLS**..... 7 2.1 Introduction...9 2.2.2 **Photopolymerization**...and Morphology of the **Polymer** Network...

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☐ **17. Growing New Cartilage** [43K]

Sep 2004

...Steering Stem **Cells** to Produce...Transdermal **Photopolymerization** for Minimally...Photocrosslinked **Polymers** Based on...Transdermal **Photopolymerization** for Cartilage...Fibrochondrocytes on **Polymer** Develops...test tube **cells**, called chondrocytes...acrylated **polymers** to collagen...cartilage. **Photopolymerization** is used as...encapsulate **cells** for drug...

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☐ **18. THREE DIMENSIONAL CELL PATTERNED BIOPLOYMER SCAFFOLDS AND METHOD OF MAKING THE SAME**

**BHATIA, Sangeeta, N. / LIU, Valerie, A. / ALBRECHT, Dirk, R. / THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, PATENT COOPERATION TREATY APPLICATION**, Jan 2004

...exploited is the use of the **photopolymerization** step to form structural...features containing **cells**. Elsewhere in non...controlling regions of **photopolymerization** using a mask (Beebe...incorporation of living **cells** 10 due to the harsh...and the high density **polymers** with short **polymer**...

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☐ **19. American Chemical Society** [PDF-606K]

Jun 2006

American Chemical Society Division of **Polymer** Chemistry ABSTRACTS 228th ACS National...S. Harrison, Presiding Papers 7-18 · **Polymer** Science of Everyday Things D. Bott, Organizer...V. Kabanov, Presiding Papers 25-33 · **Polymers** in Dental Materials J. W. Stansbury, Organizer...

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☐ **20. Polymer.** [91K]

Jun 2006

...amine system as a photoinitiator for **photopolymerization** reactions, **Polymer** 38 (6) (1997) pp. 1415-1421. W. Mormann...transmission electron microscopy specimen of **polymer** solar **cells** deposited on glass, **Polymer** 43 (26) (2002) pp. 7493-7496. P...

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☐ **21. SHAPE MEMORY THERMOPLASTICS AND POLYMER NETWORKS FOR TISSUE ENGINEERING**
**LENDLEIN, Andreas / KNISCHKA, Ralf / KRATZ, Karl / Mnemoscience GmbH, EUROPEAN PATENT, Feb 2003**

 ...the orientation of **cells** and/or tissue grown...the shape memory **polymers** (SMP) which may be...of a thermoplastic **polymer**, for example, by the **photopolymerization** of carbon-carbon...weight of thermoset **polymer** to thermoplastic...

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☐ **22. Peptides Affect Adhesion, Proliferation and Matrix Production of Smooth Muscle Cells** [PPT-7MB]

Nov 2004

 ...undesirable **cells** Influence cell...Photopolymerized Scaffolds **Polymer** solution UV...cell migration. **Cells** secrete proteolytic...acrylate group Upon **photopolymerization** with a PEG-diacrylate...smooth muscle **cells**. Synthesis of...to UV light **Polymer** solution—PEG-conjugated...via Hydrogel **Photopolymerization** 1. Fill annular...

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Apr 2006

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☐ **24. Liquid crystal alignment with a molecular template of imprinted polymer layer during phase separation**
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**Hak-Rin Kim / Jong-Wook Jung / You-Jin Lee / Jae-Hoon Kim, *Applied Physics Letters*, Mar 2006**

Sol  
Lea

...opening the **cells** and washing...phase-separated **polymer** layer in each...NLCs within the **polymer** during **photopolymerization**. But the above...increased as the **photopolymerization** continued and...direction of the **polymer** chains was determined...


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- ☐ **25. Reaction-diffusion model for the preparation of polymer gratings by patterned ultraviolet illumination**

**Christian M. Leewis / Arthur M. de Jong / Leo J. van IJzendoorn / Dirk J. Broer, *Journal of Applied Physics*, Mar 2004**

...the preparation of **polymer** gratings by patterned...microprobe. II. EXPERIMENT **Cells** for **photopolymerization** were prepared from...10 to 1000  $\mu\text{m}$ . The **cells** are filled with the...to fix the film. The **polymer** gratings thus created...

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- ☐ **26. Fractal dimensionality of polymer networks formed by photopolymerization in a liquid crystal medium**

**I Dierking, *Journal of Physics D: Applied Physics*, Oct 2002**

...dimensionality of **polymer** networks formed by **photopolymerization** in a liquid crystal...morphology of **polymer** networks formed...retina nerve **cells**) all the way...curable epoxy. **Cells** were then ground and the epoxy-**polymer** removed to expose...

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- ☐ **27. Tables of contents**

***Polymer Contents*, Jan 2006**

...Magnetic Properties of Novel **Polymer** Complexes Containing Bithiazole...Alam, and H. O. Sharma NLO **Polymers** Containing Anionic Chromophore...Acrylamide) Semi-Interpenetrating **Polymer** Networks and their Usability...Scavenger Effects in PMMA **Photopolymerization** Initiated by TiO<sub>2</sub> Semiconductor...

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- ☐ **28. Effect of thickness of coating layer on polymer-coated separator on cycling performance of lithium-ion polymer cells**

**Jeong, Y.-B. / Kim, D.-W., *Journal of Power Sources*, Apr 2004**

...consisting of a matrix **polymer** and a lithium salt...materials [3] . Such gel **polymer** electrolytes exhibit...being used in practical **cells**. For example, the poor...mechanical strength of gel **polymer** electrolytes can lead...a small amount of a **photopolymerization** initiator. This solution...

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- ☐ **29. Index to Volume 46**

***Polymer*, Dec 2005**





...Ali, Sk 10709 Assink, R. A. 10919, 11648 **Polymer** 46 (2005) IIIÃ¢ÂXXXIX  
[www.elsevier.com/locate/polymer](http://www.elsevier.com/locate/polymer) Number 1 Pages 1Ã¢Â283 Number...M. C. 2257,

4827 Index to Volume 46 / **Polymer** 46 (2005) IIIÃ¢ÂXXXIXIV Boyer...

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- ☐ **30. PROTON-CONDUCTING POLYMER MEMBRANE COMPRISING A POLYMER WITH SULPHONIC ACID GROUPS AND USE THEREOF IN FUEL CELLS**  
**KIEFER, Joachim / UENSAL, Oemer / CALUNDANN, Gordon / Pemeas GmbH, EUROPEAN PATENT, May 2005**  
 ...umfassend Sulfonsäuregruppen enthaltende **Polymere** und deren Anwendung in Brennstoffzellen...umfassend Sulfonsäuregruppen enthaltende **Polymere**, die aufgrund ihrer hervorragenden chemischen...werden kann und sich insbesondere als **Polymer-Elektrolyt-Membran (PEM)** in sogenannten...  
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- ☐ **31. Biomimetic materials and micropatterned structures using iniferters**  
**Peppas, N.A. / Ward, J.H., Advanced Drug Delivery Reviews, Sep 2004**  
 ...Upon the second irradiation of **polymer A**, monomer B is polymerized onto...the ability to make patterns on **polymer** films of any type of monomer that...application, the film may be a **polymer** to which **cells** adhere. Another material to which...  
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- ☐ **32. Polarized photoluminescence and order parameters of "in situ" photopolymerized liquid crystal films**  
**C. Sánchez / B. Villacampa / R. Cases / R. Alcalá / C. Martínez / L. Oriol / M. Piñol, Journal of Applied Physics, Jan 2000**  
 ...to produce **polymer** films by "in situ" **photopolymerization** of LC monomers...planar LC **cells**. Highly efficient...Tables and . **Polymer** films were produced by **photopolymerization** of the monomer...in planar **cells** which orient...about the **polymer** films produced...  
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- ☐ **33. Microencapsulation [10K]**  
 May 2006  
 ...1: Encapsulation of individual **cells** by **photopolymerization**. The encapsulation matrix is formed...PM-PLA-PM) linker molecules Encapsulate **cells** using the emulsion method Test **cells** for survival rate Test **polymer** for degradation rate © 2006 University...  
[\[http://www.d.umn.edu/~grutkows/Research/microencapsula...\]](http://www.d.umn.edu/~grutkows/Research/microencapsula...)  
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- ☐ **34. Preparation of a chemically anchored phospholipid monolayer on an acrylated polymer substrate**  
**Kyun Kim, H. / Kim, K. / Byun, Y., Biomaterials, Jun 2005**  
 ...monolayer In situ **photopolymerization** Acrylated **polymer** substrate...3 In situ **photopolymerization** of phospholipid...acrylated **polymer** substrate...acrylated **polymer** substrate after in situ **photopolymerization**. The AFM...  
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- ☐ **35. Photocrosslinkable polyvinyl alcohol hydrogels that can be modified with cell adhesion peptides for use in tissue...**

**Schmedlen, R.H. / Masters, K.S. / West, J.L., *Biomaterials*, Nov 2002**

...hydrogel. **Cells** seeded within...PVA) RGD **Photopolymerization** Hydrogel...network of **polymer** chains [1...presence of **cells** and tissues...This rapid **photopolymerization** process allows **cells** to be seeded...altering **polymer** concentration...

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- ☐ **36. Holographically formed Bragg reflection gratings recorded in polymer-dispersed Liquid crystal cells using a He-Ne laser**

**Robert A. Ramsey / Suresh C. Sharma / Kalpesh Vaghela, *Applied Physics Letters*, Jan 2006**

...gratings recorded in **polymer**-dispersed Liquid crystal **cells** using a He-Ne...holographically recorded in **polymer**-dispersed liquid...low intensity.

**Photopolymerization** of the reactive...blueshift in **polymer**-dispersed liquid-crystal **cells**," Opt. Lett...

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- ☐ **37. Three-dimensional growth and function of neural tissue in degradable polyethylene glycol hydrogels**

**Mahoney, M.J. / Anseth, K.S., *Biomaterials*, Apr 2006**

...prepared by **photopolymerization**. PEGPLA hydrogel...population of **cells** that is greater...three-dimensional **polymer** network in...that neural **cells** cultured within...three-dimensional **polymer** networks create...we assemble **cells** throughout a **polymer** hydrogel in...

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- ☐ **38. The role of an adhesive gel-forming polymer coated on separator for rechargeable lithium metal polymer cells**

**Jeong, Y.-B. / Kim, D.-W., *Solid State Ionics*, Jan 2005**

...for rechargeable lithium metal **polymer cells** Yeon-Bok Jeong Dong-Won Kim...adhesive gel layer, lithium metal **polymer cells** composed of a lithium anode and...the rechargeable lithium-metal **polymer cells** was investigated. Cycling performance...

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- ☐ **39. DEGRADABLE THIOL-ENE POLYMERS**

**NUTTELMAN, Charlie / THE REGENTS OF THE UNIVERSITY OF COLORADO, PATENT COOPERATION TREATY APPLICATION, Apr 2003**

DEGRADABLE THIOL-ENE **POLYMERS** FIELD OF THE INVENTION...thiol- ene based **polymers** 5 via **photopolymerization**. BACKGROUND OF THE...involve the use of **polymeric** biomaterials as cell...scaffolds, which provide **cells** with a three-dimensional...

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- ☐ **40. BIOLOGICAL ENGINEERING OF ARTICULAR STRUCTURES CONTAINING BOTH CARTILAGE AND BONE**

**MAO, Jeremy, Jian / THE BOARD OF TRUSTEES OF THE UNIVERSITY OF ILLINOIS, PATENT COOPERATION TREATY APPLICATION, Mar 2005**

...followed by **photopolymerization** and 2) additional...MSC-derived osteogenic **cells**

loaded to occupy...IF followed by **photopolymerization**. Thus, PEG-based...MSCs survived **photopolymerization**. Live cells are labeled green...

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